

Fig. 2: Syndecan-1 (rat) extracellular domain: M81785

atgagac gtgcggcgct

ctggcttttg ctctgcgcgc tggcgctgcg cctgcagcct gccctcccgc aaattgtcac
cgcaaattgt cctcctgaag accaagatgg ctctggggac gactcagaca actctcttgg
ctcaggcaca ggtgctttgc cagatatgac tttgtcacgg cagacacctt ccacttggaa
ggatgtgtgg ctctgacag ctacacccac agctccagaa cccaccagca gggatacaga
ggccaccctc acctctatcc tgccggctgg agagaagcct gaggagggag agcccgtggc
ccacgtggaa gcagagcctg acttcactgc tcgggacaag gagaaggagg ccaccaccag
gcctagggag accacacagc tcccagtcac ccaacaggcc tcaacagcag ccagagccac
cacggcccag gcatctgtca cgtctcatcc ccacggggat gtgcaacctg gcctccacga
gaccttggct cccacagcac ccggccaacc tgaccatcag cctccaagtg tggaggatgg
aggcacttct gtcatcaaag aggttgtgga ggatgaaact accaatcagc ttcctgcagg
agagggctct ggagaacaag acttcacctt tgaaacatct ggggagaaca cagctgtggc
tggcgctcag cctgaccttc ggaatcagtc cccagtggat gaaggagcca caggtgcttc
tcagggcctt ttggacagga aggaa [SEQ ID NO:1]

ACCESSION M81785
LOCUS RATSYNDECA 2396 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus syndecan mRNA, complete cds.
ACCESSION M81785
NID g207140
KEYWORDS syndecan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2396)
AUTHORS Kojima, T., Shworak, N.W. and Rosenberg, R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 3: Syndecan-2 (human) extracellular domain (J 04621):

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ggcaggaggg agggagccag aggaaaagaa gaggaggaga aggaggagga cccggggagg
gagggcgggc gcgggaggag gaggggcgca gccgcggagc cagtggcccc gcttggacgc
gctgctctcc agatacccc ggagctccag ccgcgcggat cgcgcgctcc cgccgctctg
cccctaaact tctgccgtag ctccctttca agccagcgaa tttattcctt aaaaccagaa
actgaacctc ggcacgggaa aggagtccgc ggaggagcaa aaccacagca gagcaagaag
agcttcagag agcagccttc ccggagcacc aactccgtgt cgggagtgc gaaaccaaca
agtgagaggg cgccgcgttc ccggggcgca gctgcgggcg gcgggagcag gcgcaggagg
aggaagcgag cgcccccgag ccccgagccc gagtccccga gcctgagccg caatcgctgc
ggtactctgc tccggattcg tgtgcgcggg ctgcgcgagc gctgggagcagg aggcttcggt
ttgccctggt tgcaagcagc ggctgggagc agccgggtccc tggggaatat gcggcgcgcg
tggatcctgc tcaccttggg cttggtggcc tgcgtgtcgg cggagtcgag agcagagctg
acatctgata aagacatgta ccttgacaac agctccattg aagaagcttc aggagtgtat
cctattgatg acgatgacta cgcttctgcg tctggctcgg gagctgatga ggatgtagag
agtccagagc tgacaacaac tcgaccactt ccaaagatac tgttgactag tgctgctcca
aaagtggaaa ccacgacgct gaatatacag aacaagatac ctgctcagac aaagtcacct
gaagaaactg ataaagagaa agttcacctc tctgactcag aaaggaaaat ggaccagcc
gaagaggata caaatgtgta tactgagaaa cactcagaca gtctgtttta acggacagaa
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SEQ ID NO:2

protein sequence:

```
GRREGARGKEEEEKEEDPGREARRGRRRGAAAEPVAPLGRAALQ
IPPELQPRGSRAPALPLNFCRSSLSSQRIYSLKPETEPRHGKGVRRGAKPQOSKKSF
REQPSRSTNSVSGVQKPTSERAPRSRGAAAGGSRRRRRKRAPPSPEPESPSLSRNC
GTLLRIRVRGLAERWAGGFVLPWLQAAAGSSRSLGNMRRRAWILLTLGLVACVSAESRA
ELTSDKDMYLDNSSIEEASGVYPIDDDYASASGSGADEDVESPELTTRPLPKILLT
SAAPKVETTTLNIONKIPAQTKSPEETDKEKVHLSDSERKMDPAEEDTNVYTEKHSDS
LFKRTE
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SEQ ID NO:3

reference:

ACCESSION J04621
LOCUS HUMHSPGC 3414 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.
ACCESSION J04621
NID g184428
KEYWORDS core protein; heparan sulfate proteoglycan.
SOURCE Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3414)
AUTHORS Marynen, P., Zhang, J., Cassiman, J.J., Van den Berghe, H. and David, G.
TITLE Partial primary structure of the 48- and 90-kilodalton core
proteins of cell surface-associated heparan sulfate proteoglycans
of lung fibroblasts. Prediction of an integral membrane domain and
evidence for multiple distinct core proteins at the cell surface of
human lung fibroblasts
JOURNAL J. Biol. Chem. 264 (12), 7017-7024 (1989)

Fig. 4: Synd-3 (N-Syndecan) extracellulare domain

gccccgcgcgctgctgagccgtccttgccggcacgssgatgccccgcggagctgcggcgcc
tcgcggtgctgctgctgctgctcagcgccccgcgcagcgtggctcagccgtggcgcaatg
agaactacgagagggccggtggacctggagggctctgggggatgatgatccctttggggacg
atgaactggatgacatctactcgggctccggctcaggctattttgagcaggagtcagggt
tgagacagcggtcagcctcaccacggacacgtccgtcccactgcccaccacgggtggccg
tgctgcctgtcaccttggtgcagcccatggcaacaccctttgagctgttccccacagagg
acacgtcccctgagcaaacaaccacgcgtcttggtatatccccaagataacagaagcaccag
tgatccccagctggaaaacaaccaccgccagtaccactgccagtgactccccagtagcca
cctccaccaccaccacacggctgctaccaccaccacaaccaccaccaccatcagcacca
ctgtggccacctccaagcccaccactaccacagaggttcctgccccctttgtcaccaagg
cagccaccaccaccgggcccaccaccctggagacgcccaccacctccatccctgaaaccagt
tcctgacagaggtgaccacatcacggcttgctcccctccagcacagccaagccgaggtccc
tgccaaaaccaagcacttccaggactgcagaacccacggaaaaaagcactgccttgctt
ccagccccaccacgctgccacccacagaagccccccagggtggagccaggggagttgacga
cagtcctcgacagtgccttgggaagtcccaaccagtagtggtggccagcggggacttcgaga
tccaggaggaggaggagacaactcgtcctgagctgggcaatgaggtggtggcagtggtga
caccaccagcagcaccggggctggggcaagaatgcagagccggggctcatcgacaacacaa
tagagtcgggcagctcggctgctcagctccccccagaaaaacatcctggagaggaaggaa

SEQ ID NO: 4

Reference:

ACCESSION	M84910
LOCUS	CHKSNDPRO 1372 bp mRNA VRT 29-NOV-1995
DEFINITION	Chicken syndecan-3 proteoglycan mRNA, complete cds.
ACCESSION	M84910
NID	g1017461
KEYWORDS	syndecan-3 proteoglycan.
SOURCE	Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA to mRNA.
ORGANISM	Gallus gallus Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata; Vertebrata; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus.
REFERENCE	1 (bases 1 to 1372)
AUTHORS	Gould, S.E., Upholt, W.B. and Kosher, R.A.
TITLE	Syndecan 3: a member of the syndecan family of membrane-intercalated proteoglycans that is expressed in high amounts at the onset of chicken limb cartilage differentiation
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)
MEDLINE	92228766
REFERENCE	2 (bases 1 to 1372)
AUTHORS	Gould, S.E., Upholt, W.B. and Kosher, R.A.
TITLE	Characterization of chicken syndecan-3 as a heparan sulfate proteoglycan and its expression during embryogenesis
JOURNAL	Dev. Biol. 168 (2), 438-451 (1995)

Fig. 5: Syndecan-4 extra-cellular domain from rat: M81786

atggc gcctgtctgc ctgtttgcgc cgctgctgct gttgctcctc
ggaggtttcc ccgtcgcccc aggcgagtcg attcgagaga ctgagggtcat agacccccag
gacctcctgg aaggcagata cttctctgga gccctcccgg acgatgaaga cgctgggggc
cttgagcagg actctgactt tgagctgtcg ggttccggag atctagatga cacggaggag
cccaggacct tccctgaggt gatttcaccc ttggtgccac tagataacca catccccgag
aatgcccagc ctggcatccg tgtcccctca gagcccaagg aactggaaga gaatgaggtc
attcccaaaa ggggtcccctc cgacgtgggg gatgacgatg tgtccaacaa agtgtccatg
tccagcactt cccagggcag caacattttt gaaagaactg ag [SEQ ID NO:5]

Reference:

ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima, T., Shworak, N.W. and Rosenberg, R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 6: Glypican-1 (rat) extracellular Domain:

atggag

```
ctccggggccc gaggtctggtg gctgctgtgc gcggccgccc cgctagtcgc ctgcgcccgc
ggggacccccg ccagcaagag ccggagctgc agcgaagtcc gccagatcta cggggctaag
ggcttttagcc tgagcgacgt gccccaggca gagatctcgg gagagcacct gcggatctgc
ccccagggtt acacctgctg caccagttag atggaggaga acctggccaa ccacagccgg
atggagctgg agaccgcact ccacgacagc agccgtgccc tgcaggctac actggccacc
cagctgcatg gcatcgatga ccacttccag cgctgtctga atgactcgga gcgtacactg
caggatgctt ttcccggggc ctttggggac ctgtacacgc agaactctg ggccttccgg
gacctgtatg ctgagctgcg tctctactac cgagggggcca acctacacct tgaggagaca
ctggccgagt tctgggcacg gctgctggag cgtctcttca agcagctgca cccccagctt
ctgctgcccc atgactatct ggactgcctg ggcaagcagg cagaggcact gcggccggtt
ggggatgccc ctcgagaact gcgcctgagg gccaccgctg cttttgtggc ggcacgatcc
tttgtgcagg gcctgggtgt ggccagttag gtagtccgaa aggtggccca ggttcctctg
gccccagaat gttctcgggc tgtcatgaag ttggtctact gtgcccattg ccggggagtc
cctggtgccc ggccctgtcc cgactattgc cgaaatgtgc tcaaaggctg ccttgccaac
caggccgacc tggatgccga gtggagggaac ctcttggtgact ccatggtgct catcactgac
aagttctggg gcccgtcggg tgcggagaat gtcattggca gtgtgcatat gtggtggcg
gaggccatca acgccctcca ggacaacaag gacacactca cagctaaggc catccagggc
tgcggaaacc ccaagggtcaa tccccatggc tctgggcctg aggagaagcg tcgccgtggc
aaactggcac tgcaggagaa gtcctccaca ggtactctgg aaaagctggt ctctgaggcc
aaggcccagc tccgagacat tcaggactac tggatcagcc tcccaggggac actgtgtagt
gagaagatgg ccatgagtcg tgccagcgat gaccgctgct ggaatgggat ttccaagggc
cgttacctac ctgaggtgat gggatgatgg ctggccaacc agatcaacaa cctgaagtg
gaggtggaca tcaccaagcc ggatatgacc atccggcagc agatcatgca gctcaagatc
atgaccaacc gtttacgtgg cgcctacggt ggcaatgatg tggacttcca ggatgccagt
gatgacggca gtggctccgg cagcgggtggc ggatgccagc atgaagcctg tggccggagg
gtcagcaaga agagctccag ctcccgagc cccttgaccc atgcctccc cggttgtca
gaacaggagg gacagaagac ctgc [SEQ ID NO:6]
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Protein sequence:

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MELRARGWLLCAAALVACARGDPASKSRSCSEVRQIYGAKGF
SLSDVPQAEISGEHLRIPCQGYTCCTSEMEENLANHSRMELETALHDSSRALQATLAT
QLHGIDDFQRLNDSERTLQDAFPGAFGDLYTQNTAFRDLYAELRLYYRGANLHLE
ETLAEFWARLLERLFKQLHPQLLLPDDYLDCLGKQAEALRPFADAPRELRLRATRAFV
AARSFVQGLGVASDVVRKVAQVPLAPECRAVMKLVYCAHCRGVPGARPCPDYCRNVL
KGCLANQADLDAEWRNLLDSMVLITDKFWGPGSAENVIGSVHMLAEAINALQDNKDT
LTAKVIQCGGNPKVNPBGSGPEEKRRRGKLALQEKSTGTLEKLVSEAKAQLRDIQDY
WISLPGTLCSEKMAMSPASDDRCWNGISKGRYLPEVMGDGLANQINNPEVEVDITKPD
MTIRQQIMQLKIMTNRLRGAYGGNDVDFQDASDDGSGSGGGCPDDACGRRVSKKSS
SSRTPLTHALPGLSEQEQKTS [SEQ ID NO:7]
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Reference:

ACCESSION L34067
NID g506416
KEYWORDS glypican.
SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 1737)
AUTHORS Litwack, E.D., Stipp, C.S., Kumbasar, A. and Lander, A.D.
TITLE Neuronal expression of glypican, a cell-surface
glycosylphosphatidylinositol-anchored heparan sulfate proteoglycan,
in the adult rat nervous system
JOURNAL J. Neurosci. 14, 3713-3724 (1994)

Fig.7 : Syndecan-1 (rat) transmembrane domain: M81785

gtgct gggaggtgtc attgctggag gcctgggtggg
cctcatcttt gctgtgtgcc tgggtggcttt catgctatac [SEQ ID NO:8]

Reference:

ACCESSION M81785
LOCUS RATSYNDECA 2396 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus syndecan mRNA, complete cds.
ACCESSION M81785
NID g207140
KEYWORDS syndecan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2396)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 8 : Syndecan-2 (human) transmembrane domain (J 04621):

gtcctagcag ctgtcattgc tgggtggagtt attggctttc tctttgcaat ttttcttata
ctgctgttgg tg [SEQ ID NO:9]

protein sequence:
VLAAVIAGGVIGFLFAIFLILLV

[SEQ ID NO:10]

reference:

ACCESSION J04621
LOCUS HUMHSPGC 3414 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.
ACCESSION J04621
NID g184428
KEYWORDS core protein; heparan sulfate proteoglycan.
SOURCE Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3414)
AUTHORS Marynen,P., Zhang,J., Cassiman,J.J., Van den Berghe,H. and David,G.
TITLE Partial primary structure of the 48- and 90-kilodalton core
proteins of cell surface-associated heparan sulfate proteoglycans
of lung fibroblasts. Prediction of an integral membrane domain and
evidence for multiple distinct core proteins at the cell surface of
human lung fibroblasts
JOURNAL J. Biol. Chem. 264 (12), 7017-7024 (1989)

Fig. 9 : Synd-3 (N-Syndecan) chicken Transmembrane domain

gtgttgatagctgtgattgtcggcggtgtggtgggagccctctttgctgccttccttggtca
tgctgctcatctac [SEQ ID NO:11]

Reference:

ACCESSION M84910
LOCUS CHKSNDPCPRO 1372 bp mRNA VRT 29-NOV-1995
DEFINITION Chicken syndecan-3 proteoglycan mRNA, complete cds.
ACCESSION M84910
NID g1017461
KEYWORDS syndecan-3 proteoglycan.
SOURCE Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA to mRNA.
ORGANISM Gallus gallus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Archosauria; Aves; Neognathae; Galliformes;
Phasianidae; Phasianinae; Gallus.
REFERENCE 1 (bases 1 to 1372)
AUTHORS Gould, S.E., Upholt, W.B. and Kosher, R.A.
TITLE Syndecan 3: a member of the syndecan family of
membrane-intercalated proteoglycans that is expressed in high
amounts at the onset of chicken limb cartilage differentiation
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)
MEDLINE 92228766
REFERENCE 2 (bases 1 to 1372)
AUTHORS Gould, S.E., Upholt, W.B. and Kosher, R.A.
TITLE Characterization of chicken syndecan-3 as a heparan sulfate
proteoglycan and its expression during embryogenesis
JOURNAL Dev. Biol. 168 (2), 438-451 (1995)

Figure 10 : Syndecan-4 transmembrane domain from rat: M81786

gtcttggc agctctgatt gtgggcggcg tagtgggcat cctcttcgcc gttttcctga
tcctgctgct ggtgtac [SEQ ID NO:12]

Reference:

ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 11 : Glypican-1 (rat) GPI-Transmembrane Domain:

gccgcc actcgcccag agcctcacta cttctttctg
ctcttcctgt tcaccttggt ccttgctgca gccaggccca ggtggcggtg actgccc
[SEQ ID NO:13]

protein sequence:

ATRPEPHYFFLLFLFTLVLAAARPRWR [SEQ ID NO:14]

Reference:

ACCESSION L34067
NID g506416
KEYWORDS glypican.
SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 1737)
AUTHORS Litwack,E.D., Stipp,C.S., Kumbasar,A. and Lander,A.D.
TITLE Neuronal expression of glypican, a cell-surface
glycosylphosphatidylinositol-anchored heparan sulfate proteoglycan,
in the adult rat nervous system
JOURNAL J. Neurosci. 14, 3713-3724 (1994)

Figure 12 : Perlecan (human) transmembrane domain #M85289

tcgcgacactgctcatcccag
ccatcacgactgctgacgccggcttctacctctgcgtggccaccagccctgcaggcactg
cc [SEQ ID NO:15]

Reference:

LOCUS HUMHSPG2B 14327 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG2) mRNA, complete cds.
ACCESSION M85289
NID gl84426
KEYWORDS HSPG2 gene; heparan sulfate proteoglycan.
SOURCE Homo sapiens skin; colon cDNA to mRNA.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 14327)
AUTHORS Dodge,G.R., Kovalszky,I., Chu,M.L., Hassell,J.R., McBride,O.W.,
Yi,H.F. and Iozzo,R.V.
TITLE Heparan sulfate proteoglycan of human colon: partial molecular
cloning, cellular expression, and mapping of the gene (HSPG2) to
the short arm of human chromosome 1
JOURNAL Genomics 10 (3), 673-680 (1991)
MEDLINE 91365376
REFERENCE 2 (bases 1 to 14327)
AUTHORS Murdoch,A.D., Dodge,G.R., Cohen,I., Tuan,R.S. and Iozzo,R.V.
TITLE Primary structure of the human heparan sulfate proteoglycan from
basement membrane (HSPG2/perlecan). A chimeric molecule with
multiple domains homologous to the low density lipoprotein
receptor, laminin, neural cell adhesion molecules, and epidermal
growth factor
JOURNAL J. Biol. Chem. 267 (12), 8544-8557 (1992)

Figure 13 : Syndecan-4 cytoplasmic domain from rat: M81786

Cgc atgaagaaga aggatgaagg cagttacgac ttgggcaaga aacccatcta caaaaaagcc
cccaccaacg agttctacgc atga [SEQ ID NO:16]

Reference:

ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)